

**Table C-107a. Federal obligations for total research, by detailed field of science and engineering:
fiscal years 1991-2001**

[Dollars in millions]

Field of science and engineering	1991	1992	1993	1994	1995	1996	1997	1998	1999	Preliminary	
										2000	2001
Total, all fields	23,968.4	24,490.6	26,890.5	27,411.2	28,434.4	28,259.8	29,365.3	30,922.3	33,527.5	36,329.5	38,688.1
Life sciences, total	9,622.0	9,910.5	10,772.1	11,284.3	11,811.0	12,064.3	12,661.3	13,557.6	15,422.5	17,422.5	18,249.2
Biol & agricultural, total	5,597.9	5,633.6	6,059.3	6,103.0	6,402.5	6,629.9	6,544.0	7,073.8	8,047.7	NA	NA
Biol (excl environmental)	4,457.8	4,435.1	4,789.9	4,745.8	4,925.4	5,309.9	5,320.2	5,706.6	6,477.6	NA	NA
Environmental biology	459.7	511.0	556.5	629.9	806.9	704.0	582.5	604.5	720.6	NA	NA
Agricultural	680.3	687.5	712.9	727.2	670.3	616.0	641.3	762.8	849.4	NA	NA
Medical sciences	3,460.3	3,909.9	4,404.4	4,862.1	4,972.2	4,973.4	5,532.7	5,996.3	6,801.2	NA	NA
Life sciences, n.e.c.	563.8	367.0	308.3	319.3	436.3	461.1	584.6	487.4	573.6	NA	NA
Psychology, total	482.4	298.1	550.7	548.4	622.6	525.0	545.4	591.0	632.6	719.9	751.8
Biological aspects	140.2	34.6	37.2	48.1	58.8	62.8	57.8	41.6	18.0	NA	NA
Social aspects	197.5	100.9	134.7	116.8	156.3	83.4	96.7	97.5	66.6	NA	NA
Psychological sci, n.e.c.	144.8	162.6	378.7	383.4	407.5	378.8	390.9	451.9	547.9	NA	NA
Physical sciences, total	4,235.3	4,439.2	4,427.0	4,253.5	4,278.3	3,923.0	4,149.2	4,209.7	4,066.2	4,183.1	4,430.2
Astronomy	631.7	739.1	686.3	747.6	764.5	729.0	774.7	732.2	757.9	NA	NA
Chemistry	828.4	896.2	843.2	874.4	863.5	881.1	845.8	819.0	814.9	NA	NA
Physics	2,460.9	2,578.2	2,638.4	2,443.1	2,451.2	1,991.3	2,067.6	2,131.8	2,221.9	NA	NA
Physical sciences, n.e.c.	314.3	225.7	259.2	188.3	199.2	321.6	461.0	526.7	271.4	NA	NA
Environmental sciences, total	2,149.8	2,207.6	2,608.5	2,838.2	2,854.4	3,019.7	3,045.7	3,062.0	3,095.3	3,102.4	3,243.2
Atmospheric sciences	802.7	767.3	984.1	1,095.0	1,135.6	1,085.7	1,164.3	1,174.4	1,176.5	NA	NA
Geological sciences	728.7	735.7	797.9	838.0	848.3	784.3	691.8	603.3	660.2	NA	NA
Oceanography	398.6	458.9	467.4	496.8	407.3	574.3	597.7	559.8	656.6	NA	NA
Environmental sci, n.e.c.	219.8	245.8	359.2	408.5	463.3	575.4	591.8	724.4	602.0	NA	NA
Math & computer sci, total	903.7	1,160.3	1,225.4	1,301.6	1,579.1	1,571.6	1,671.8	1,836.8	1,980.6	2,178.5	2,517.3
Mathematics	227.6	318.7	290.8	342.3	258.6	254.5	301.6	334.1	345.3	NA	NA
Computer sciences	584.9	771.8	826.1	830.2	1,013.9	1,119.8	1,264.7	1,398.7	1,516.1	NA	NA
Math & computer sci, n.e.c.	91.1	69.9	108.5	129.1	306.6	197.3	105.5	104.0	119.2	NA	NA
Engineering, total	4,944.5	4,977.0	5,499.4	5,479.4	5,708.4	5,680.9	5,690.3	5,895.4	6,263.4	6,548.3	7,088.7
Aeronautical	1,016.2	874.6	1,193.0	1,222.7	1,248.3	1,249.4	1,352.7	1,596.4	1,609.7	NA	NA
Astronautical	653.1	630.4	494.0	499.1	546.5	526.6	596.3	631.1	620.6	NA	NA
Chemical	304.3	297.5	245.5	238.2	246.1	215.1	235.0	190.1	203.2	NA	NA
Civil	305.0	330.2	252.0	277.9	339.4	300.2	275.6	244.1	328.5	NA	NA
Electrical	729.9	759.0	881.5	741.8	756.3	669.7	622.2	639.3	698.7	NA	NA
Mechanical	335.5	337.2	466.9	378.1	412.5	294.0	254.6	249.6	240.4	NA	NA
Metallurgy & materials	710.7	727.2	695.7	851.4	815.3	989.0	860.7	789.1	788.0	NA	NA
Engineering, n.e.c.	889.8	1,020.8	1,270.9	1,270.2	1,344.2	1,437.0	1,493.2	1,555.6	1,774.3	NA	NA
Social sciences, total	727.3	689.7	674.9	647.4	678.7	654.6	696.3	806.1	854.9	901.8	995.9
Anthropology	16.0	14.1	13.7	16.2	21.7	18.3	21.0	18.2	18.3	NA	NA
Economics	187.4	211.6	204.7	193.3	206.5	194.2	205.2	230.5	216.6	NA	NA
Political science	17.0	22.6	29.2	25.4	22.3	16.7	14.1	20.2	20.2	NA	NA
Sociology	184.0	80.7	76.7	68.1	47.8	41.2	25.9	100.8	83.8	NA	NA
Social sciences, n.e.c.	322.9	360.8	350.5	344.4	380.3	384.2	430.2	436.4	516.0	NA	NA
Other sciences, n.e.c.	903.4	808.3	1,132.5	1,058.4	901.8	820.7	905.3	963.7	1,212.1	1,273.0	1,411.8

NOTES: Because of rounding, detail may not add to totals.

Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields (such as psychology) in fiscal year 1992 seems to be underreported.

During the Vol. 45 survey cycle, the National Aeronautics and Space Administration made a statistical adjustment to the 1994 and 1995 field of science and engineering values to diminish a computational error introduced by its software.

The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the fiscal year 1996 field of science data (such as mechanical engineering).

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1999, 2000, and 2001